

## SEQUENCE LISTING

<110> Eastman, Alan R.  
Krieser, Ronald J.  
Trustees of Dartmouth College

<120> DEOXYRIBONUCLEASE II BETA PROTEINS AND cDNAS

<130> DC-0154

<140>

<141>

<150> 09/541,840

<151> 2000-04-03

<150> 09/574,942

<151> 2000-05-19

<160> 6

<170> PatentIn Ver. 2.1

<210> 1

<211> 1224

<212> DNA

<213> Mus sp.

<400> 1

```
tcccagtcctc ctgcatggaa tgaaggccac agatagaaaa tgacagcaaa gcctctaaga 60
acagttcttt ctttgctctt ctttgccctc tctgggggtcc tggggacacc agaaatctca 120
tgcagaaatg aatatggtga agctgtggac tgggtttatct tttataagtt acccaaaagg 180
actagcaagg caagtgaaga ggcgggggctg cagtacctgt acctggactc cacaagacaa 240
acctggaaca agagcctcta cctgattaac agcaccagga gtgctctggg gaggacctta 300
cagcatctgt atgacacaca taattccacg aatgacacag cctatctaata atacaacgat 360
ggtgtccctg gatctgtgaa ttacagcaga cagtatggac atgccaaagg tctgctggta 420
tggaacagaa cgcaggggtt ctggctgata cactctgttc ccaagtttcc ccagttcat 480
ggctatgagt acccaacctc ggggaggcga tatggacaaa ccggcatctg catcactttc 540
ggatacagcc agtttgagga aatagatttt cagctcttgg tcttacaacc aaacatctac 600
agctgcttca ttccaagcac ctttacttgg aaacttatct acatgccccg gatgtgtgcc 660
aactccagtt ccttaaagat ccctgtccgg tacctcgctg aactgcactc agcccagggt 720
ctaaacttcg tccattttgc aaaatcaagt ttttatactg atgacatctt tacaggatgg 780
atagctcaaa agttgaagac acatttggtt gcacaaacct ggcagaaaaa gaaacaagag 840
cttccttcaa actgttcctt gccttaccat gtctacaaca tcaagtccat tggggtaact 900
tccaagtctt acttcagttc tcgccaagac cattccaaat ggtgtgtttc cataaagggc 960
tcgcaaatc gctggacctg cattggagac cttaaactgaa gcctacacca agccttaaga 1020
ggtggaggat tcatctgtac aaagaatcac tacatttacc aggcatttca taaattatat 1080
ctccgttatg gggtctgtaa gtaaactcgg tgaaaggcca caccctctgt ccttgaaaac 1140
```

actggcactg gaacatctcg ccttggtatct gttctccata atatcaaggc ttctgagtga 1200  
gcacaacgta gcgtccaata aaag 1224

<210> 2  
<211> 354  
<212> PRT  
<213> Mus sp.

<400> 2  
Met Thr Ala Lys Pro Leu Arg Thr Val Leu Ser Leu Leu Phe Phe Ala  
1 5 10 15  
Leu Ser Gly Val Leu Gly Thr Pro Glu Ile Ser Cys Arg Asn Glu Tyr  
20 25 30  
Gly Glu Ala Val Asp Trp Phe Ile Phe Tyr Lys Leu Pro Lys Arg Thr  
35 40 45  
Ser Lys Ala Ser Glu Glu Ala Gly Leu Gln Tyr Leu Tyr Leu Asp Ser  
50 55 60  
Thr Arg Gln Thr Trp Asn Lys Ser Leu Tyr Leu Ile Asn Ser Thr Arg  
65 70 75 80  
Ser Ala Leu Gly Arg Thr Leu Gln His Leu Tyr Asp Thr His Asn Ser  
85 90 95  
Thr Asn Asp Thr Ala Tyr Leu Ile Tyr Asn Asp Gly Val Pro Gly Ser  
100 105 110  
Val Asn Tyr Ser Arg Gln Tyr Gly His Ala Lys Gly Leu Leu Val Trp  
115 120 125  
Asn Arg Thr Gln Gly Phe Trp Leu Ile His Ser Val Pro Lys Phe Pro  
130 135 140  
Pro Val His Gly Tyr Glu Tyr Pro Thr Ser Gly Arg Arg Tyr Gly Gln  
145 150 155 160  
Thr Gly Ile Cys Ile Thr Phe Gly Tyr Ser Gln Phe Glu Glu Ile Asp  
165 170 175  
Phe Gln Leu Leu Val Leu Gln Pro Asn Ile Tyr Ser Cys Phe Ile Pro  
180 185 190  
Ser Thr Phe His Trp Lys Leu Ile Tyr Met Pro Arg Met Cys Ala Asn  
195 200 205

Ser Ser Ser Leu Lys Ile Pro Val Arg Tyr Leu Ala Glu Leu His Ser  
 210 215 220  
 Ala Gln Gly Leu Asn Phe Val His Phe Ala Lys Ser Ser Phe Tyr Thr  
 225 230 235 240  
 Asp Asp Ile Phe Thr Gly Trp Ile Ala Gln Lys Leu Lys Thr His Leu  
 245 250 255  
 Leu Ala Gln Thr Trp Gln Lys Lys Lys Gln Glu Leu Pro Ser Asn Cys  
 260 265 270  
 Ser Leu Pro Tyr His Val Tyr Asn Ile Lys Ser Ile Gly Val Thr Ser  
 275 280 285  
 Lys Ser Tyr Phe Ser Ser Arg Gln Asp His Ser Lys Trp Cys Val Ser  
 290 295 300  
 Ile Lys Gly Ser Ala Asn Arg Trp Thr Cys Ile Gly Asp Leu Asn Arg  
 305 310 315 320  
 Ser Leu His Gln Ala Leu Arg Gly Gly Gly Phe Ile Cys Thr Lys Asn  
 325 330 335  
 His Tyr Ile Tyr Gln Ala Phe His Lys Leu Tyr Leu Arg Tyr Gly Phe  
 340 345 350

Cys Lys

<210> 3

<211> 1268

<212> DNA

<213> Homo sapiens

<400> 3

atgggggaaag tgtcctgctg tggcatgaaa taaatgaaac agaaaatgat ggcaagactg 60  
 ctaagaacat cctttgcttt gctcttcctt ggctctttg ggggtgctggg ggcagcaaca 120  
 atttcatgca gaaatgaaga agggaaagct gtggactggg ttacttttta taagtacact 180  
 aaaagacaaa acaaggaaag tggagagact ggggttagagt acctgtacct agactctaca 240  
 actagaagct ggaggaagag tgagcaacta atgaatgaca ccaagagtgt tttgggaagg 300  
 acattacaac agctatatga agcatatgcc tctaagagta acaacacagc ctatctaata 360  
 tacaatgatg gagtccctaa acctgtgaat tacagtagaa agtatggaca caccaaagg 420  
 ttactgctgt ggaacagagt tcaagggttc tggctgattc attccatccc tcagtttcct 480  
 ccaattccgg aagaaggcta tgattatcca cccacaggga gacgaaatgg acaaagtggc 540  
 atctgcataa ctttcaagta caaccagtat gaggcaatag attctcagct cttgggtctgc 600

aaccccaacg tctatagctg ctccatccca gccacctttc accaggagct cattcacatg 660  
ccccagctgt gcaccagggc cagctcatca gagattcctg gcaggctcct caccacactt 720  
cagtcggccc agggacaaaa attcctccat tttgcaaagt cggattcttt tcttgacgac 780  
atctttgcag cctggatggc tcaacggctg aagacacact tgtaacaga aacctggcag 840  
cgaaaaagac aagagcttcc ttcaaactgc tcccttcctt accatgtcta caatataaaa 900  
gcaattaaat tatcacgaca ctcttatttc agttcttata aagatcacgc caagtgggtg 960  
atttcccaaa agggcaccaa aaatcgctgg acatgtattg gagacctaaa tcggagtcca 1020  
caccaagcct tcagaagtgg aggattcatt tgtaccaga attggcaaat ttaccaagca 1080  
tttcaaggat tagtattata ctatgaaagc tgtaagtaaa cttggtgaaa ggacacaggt 1140  
actatcattg aaaaccttga caatgggtct tcttccatta caccttcttt atattttaaa 1200  
ggcctgtgaa tatacttata acctgcatat cacaaaataa aacatatttc tctcatgttt 1260  
accattta 1268

<210> 4

<211> 357

<212> PRT

<213> Homo sapiens

<400> 4

Met Met Ala Arg Leu Leu Arg Thr Ser Phe Ala Leu Leu Phe Leu Gly  
1 5 10 15

Leu Phe Gly Val Leu Gly Ala Ala Thr Ile Ser Cys Arg Asn Glu Glu  
20 25 30

Gly Lys Ala Val Asp Trp Phe Thr Phe Tyr Lys Leu Pro Lys Arg Gln  
35 40 45

Asn Lys Glu Ser Gly Glu Thr Gly Leu Glu Tyr Leu Tyr Leu Asp Ser  
50 55 60

Thr Thr Arg Ser Trp Arg Lys Ser Glu Gln Leu Met Asn Asp Thr Lys  
65 70 75 80

Ser Val Leu Gly Arg Thr Leu Gln Gln Leu Tyr Glu Ala Tyr Ala Ser  
85 90 95

Lys Ser Asn Asn Thr Ala Tyr Leu Ile Tyr Asn Asp Gly Val Pro Lys  
100 105 110

Pro Val Asn Tyr Ser Arg Lys Tyr Gly His Thr Lys Gly Leu Leu Leu  
115 120 125

Trp Asn Arg Val Gln Gly Phe Trp Leu Ile His Ser Ile Pro Gln Phe  
130 135 140

Pro Pro Ile Pro Glu Glu Gly Tyr Asp Tyr Pro Pro Thr Gly Arg Arg

145	150	155	160
Asn Gly Gln Ser Gly Ile Cys Ile Thr Phe Lys Tyr Asn Gln Tyr Glu			
165	170	175	
Ala Ile Asp Ser Gln Leu Leu Val Cys Asn Pro Asn Val Tyr Ser Cys			
180	185	190	
Ser Ile Pro Ala Thr Phe His Gln Glu Leu Ile His Met Pro Gln Leu			
195	200	205	
Cys Thr Arg Ala Ser Ser Ser Glu Ile Pro Gly Arg Leu Leu Thr Thr			
210	215	220	
Leu Gln Ser Ala Gln Gly Gln Lys Phe Leu His Phe Ala Lys Ser Asp			
225	230	235	240
Ser Phe Leu Asp Asp Ile Phe Ala Ala Trp Met Ala Gln Arg Leu Lys			
245	250	255	
Thr His Leu Leu Thr Glu Thr Trp Gln Arg Lys Arg Gln Glu Leu Pro			
260	265	270	
Ser Asn Cys Ser Leu Pro Tyr His Val Tyr Asn Ile Lys Ala Ile Lys			
275	280	285	
Leu Ser Arg His Ser Tyr Phe Ser Ser Tyr Gln Asp His Ala Lys Trp			
290	295	300	
Cys Ile Ser Gln Lys Gly Thr Lys Asn Arg Trp Thr Cys Ile Gly Asp			
305	310	315	320
Leu Asn Arg Ser Pro His Gln Ala Phe Arg Ser Gly Gly Phe Ile Cys			
325	330	335	
Thr Gln Asn Trp Gln Ile Tyr Gln Ala Phe Gln Gly Leu Val Leu Tyr			
340	345	350	
Tyr Glu Ser Cys Lys			
355			

&lt;210&gt; 5

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

WO 01/75082

PCT/US01/10635

Phe Asn Ser Thr Glu Asp His Ser Lys Trp Cys Val  
1 5 10

<210> 6

<211> 12

<212> PRT

<213> Homo sapiens

<400> 6

Phe Ser Ser Tyr Gln Asp His Ala Lys Trp Cys Ile  
1 5 10